CFP2000 Result

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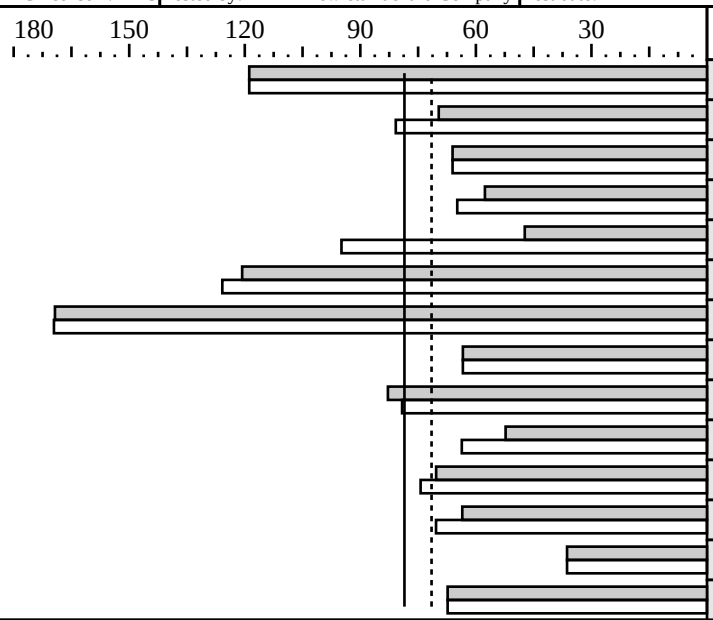
Hewlett-Packard Company

ProLiant BL45p G2 (AMD Opteron (TM) 8218)

SPECfp_rate2000 = 78.5

SPECfp_rate_base2000 = 71.5

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Aug-2006 | Hardware Avail: Sep-2006 | Software Avail: Apr-2006



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	62.5	119	4	62.5	119
171.swim	4	207	69.6	4	178	80.8
172.mgrid	4	126	66.1	4	126	66.1
173.applu	4	169	57.7	4	150	64.8
177.mesa	4	137	47.3	4	68.5	94.9
178.galgel	4	112	121	4	107	126
179.art	4	71.3	169	4	71.2	170
183.equake	4	95.2	63.4	4	95.2	63.4
187.facerec	4	106	82.8	4	111	79.2
188.ammp	4	195	52.3	4	160	63.7
189.lucas	4	132	70.3	4	125	74.4
191.fma3d	4	153	63.5	4	139	70.3
200.sixtrack	4	140	36.3	4	140	36.3
301.apsi	4	179	67.3	4	179	67.3

Hardware

CPU:	AMD Opteron (TM) 8218
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	2,4 chips
Parallel:	No
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	16 GB (8x2 GB PC2-5300P CL5.0)
Disk Subsystem:	1x36 GB 10 K SAS
Other Hardware:	

Software

Operating System:	Windows Server 2003 Enterprise SP1
Compiler:	Intel C++ Compiler for 32-bit applications, (version 9.1 Build 20060323Z) Intel Fortran Compiler for 32-bit applications, (version 9.1 build 20060323Z) PGI Fortran compiler 6.0-8 for Windows XP (32-bit) PGI C compiler 6.0-8 for Windows XP (32-bit) Microsoft Visual Studio .NET 7.0.9466 (for libraries) AMD Core Math Library V3.5.0
File System:	NTFS
System State:	Default

Notes/Tuning Information

```
 +FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use (Intel compiler)
 +FDO*: PASS1=-Mpfi  PASS2=-Mpfo (PGI compiler)
 +ACML is linking with AMD Core Math Library V3.5.0
 ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and
 pgf90 is the PGI Fortran compiler, pgcc is the PGI C compiler.
Base tuning for C programs:       pgcc  -fastsse -Mipa=fast,inline
Base tuning for FORTRAN programs: pgf90 -fastsse -Mipa=fast,inline +FDO* ONESTEP=1
Portability flags:
  178.galgel: -Mfixed
Peak tuning:
 168.wupwise:       pgf90 basepeak=yes
 171.swim:          ifort -Qipo  -O3  -QaxN -QxW +FDO -Qunroll0 ONESTEP=1
 172.mgrid:         pgf90 basepeak=yes
 173.applu:         ifort -Qipo  -O3  -QaxN -QxW +FDO -auto ONESTEP=1
 177.mesa:         icl   -Qipo -arch:SSE2       +FDO -Qunroll1 -Qansi_alias ONESTEP=1
                        -Qoption,c,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
 178.galgel:       pgf90 -fastsse -Mipa=fast,safe RM_SOURCES=lapak.f90 -Munix +ACML ONESTEP=1
```

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Notes/Tuning Information (Continued)

```
 179.art:           pgcc  -fastsse -Mipa=fast,inline
 183.equake:        icl   basepeak=yes
 187.facerec:       ifort -Qipo            -QxW +FDO -Qunroll3 ONESTEP=1
                        -Qoption,f,-ip_ninl_max_stats=2500,-ip_ninl_max_total_stats=7000
 188.ammp:          icl   -Oa   -arch:SSE2  -Zp4      -Qansi_alias ONESTEP=1
 189.lucas:         ifort -Qipo            -QxW      -Qunroll1 ONESTEP=1
 191.fma3d:         ifort -Qipo       -QaxN -QxW +FDO -Qansi-alias- ONESTEP=1
 200.sixtrack:      pgf90 basepeak=yes
 301.apsi:          pgf90 basepeak=yes
BIOS Configuration Notes
  Node Interleaving is Disabled
Other Configuration Notes
  The start /b /wait /affinity command is used to bind CPU(s) to processes.
```